

2009/2010 Bridge Project Summary

The following summarizes major activities on City (DOTE) and County bridges that occurred in 2009 or will occur in 2010. Except as noted, DOTE staff performed plan development and construction management for these bridge projects.

2009/2010 City (DOTE) Bridge Projects

Second Street over Transit Center – Leak Mitigation (City Bridge in Central Riverfront District)

This project consists of improvements to the Transit Center which will mitigate current leakage issues. The project is being implemented as a preservation measure of the structure and the appurtenances within. Plans for the work were prepared by a directed consultant. Construction of the first phase of the work will begin in 2010.

Second Street over Transit Center, East End – Crack Monitoring (City Bridge in Central Riverfront District)

This bridge was constructed as part of the FWW project and experienced cracking immediately upon its completion. The extent of cracking was documented in 2004 by a directed consultant and truck load tests were performed by UC in 2005 and 2008. During that load tests, the bridge deflected as expected indicating that the structure continues to perform as designed. A follow-up inspection/documentation of observable cracking by UC was performed in summer of 2009 to verify that the bridge is continuing to perform as designed. This project consisted of documenting the extent of cracks. The cost for the work was \$70,000 and was financed with City CIP bridge funds.

Burns Street Ramp Bridge Replacement (City Bridge in Lower Price Hill)

See Major Bridge Projects for information on this project.

Central Parkway over Rapid Transit Tubes, Walnut to Draper – Concrete Repairs (City Bridge in the CBD, Over the Rhine, the West End, CUF and Camp Washington)

This project consists of the replacement of five expansion joints with the rapid transit tubes and other miscellaneous repairs. A contract for the work was awarded in 2009 in the amount of \$1,808,993 and is being funded primarily with Water Works funds as the tubes house and provide protection for an existing water main. At the time of this report, two of the five expansion joints have been replaced. The remaining expansion joints will be replaced by 2011.

Waldvogel Viaduct Fracture Critical Inspection and Analysis (City Bridge in Lower Price Hill)

This project consisted of performing a “hands on” inspection of every fracture critical member of the Viaduct not over River Road. (ODOT performed a fracture critical inspection for those portions of the Viaduct over River Road in autumn of 2009). The inspection within arm’s length distance was carried out by a directed consultant in

January 2010. The cost for inspection was \$32,000 and was funded with City CIP bridge funds.

Central Riverfront - Freedom Way Construction (future City Bridges in CBD)

This project consists of building Freedom Way as a bridge over new and proposed parking garages between Main and Walnut streets and between Rosa Parks and Elm Streets. The structures will have a combined deck area of approximately 93,000 square feet and upon completion will become City bridges. Plans were developed by directed consultants. These structures are being constructed and financed as part of the Banks project.

Elmhurst Ave. Pedestrian Bridge over Torrence Parkway – Concrete Repairs (City Bridge in Evanston and Hyde Park)

This project consists of concrete patching and sealing of the existing concrete frame structure. Plans are being developed by DOTE personnel and a contract will be let in 2010. The project will be financed with City CIP bridge funds.

Race Street, Vine Street and Walnut Street Bridges over Fort Washington Way - Waterproofing (City Bridges in the Central Business District)

This project consists waterproofing the existing planters on the bridges and making improvements to the existing drainage and irrigation systems within the planters. The work is expected to bid in the Fall of 2010.

2009/2010 County Bridge Projects

Eighth Street Viaduct Reconstruction and Eighth Street Bridge Replacement

(County Bridges in Queensgate and Lower Price Hill)

See Major Bridge Projects for information on this project.

Western Hills Viaduct Fracture Critical Inspection (County Bridge in CUF and South Fairmont)

This project consists of performing a "hands on" inspection of every fracture critical member on the Western Hills Viaduct as well as inspecting selected fatigue-prone members within arm's length distance. The inspection was performed by a directed consultant. Work was performed in April/May of 2009. The cost for this work is \$36,515 and was funded with County MRF bridge funds.

Marburg Avenue Bridge over Norfolk Southern Railroad – Inspection and Interim Repair Contract (County Bridge in Hyde Park)

This project consists of performing a "hands-on" inspection of the beam ends and pier seats to determine the extent of repairs needed at the expansion joints located over both piers. The inspection was performed by a directed consultant during the Spring of 2009. The cost for this inspection was \$19,200 and was funded with County MRF funds. Contract plans are being developed to replace the expansion joints, repair the concrete beam ends and the pier seats, and replace the asphalt wearing surface. Pending the availability of funds, the repair contract is expected to be bid in the fall of 2010 and will be funded with County MRF funds.

Clifton Avenue Bridge over the Mill Creek (County Bridge in Spring Grove Village and Northside)

This project consists of removing and replacing the existing superstructure as well as widening the bridge with corresponding improvements to the substructure. Work on this project began in the fall of 2009 and is expected to be completed in fall of 2010. The accepted contract bid price for this work was \$1,535,000 and is being funded using 30% County MRF bridge funds and 70% State OPWC funds.

Western Hills Viaduct – Upper Deck Rehabilitation (County Bridge in South Fairmount and CUF)

This project consists of replacing the expansion joints and resurfacing the upper deck of the Western Hills Viaduct. Construction is expected to begin in the summer of 2010. The project is being financed using 50% County MRF bridge funds and 50% State OPWC funds.